## Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

## Listing of Claims:

1 (Currently amended). A method for treating diabetes type II, comprising administering to a human or other mammal in need thereof:

an effective amount of a compound according to formula I

$$R^{1} \longrightarrow S \longrightarrow G-L \qquad (I)$$

as well as a tautomer, geometrical isomer, optically active form as enantiomer, diastereomer, racemate, or a pharmaceutically acceptable salt thereof, wherein

G is a pyrimidinyl group;

L is an  $C_1$ - $C_6$ -alkoxy, an amino group, or a 3-8 membered heterocycloalkyl, containing at least one heteroatom selected from the group consisting of N, O, and S; and

 $R^1$  is selected from the group consisting of hydrogen, sulfonyl, amino,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl or  $C_1$ - $C_6$ -alkoxy, aryl, halogen, cyano and hydroxy; and

or (Ia''):

at least one supplementary drug selected from the group consisting of insulin, aldose reductase inhibitors, alpha-glucosidase inhibitors, sulfonyl urea agents, biguanides, thiazolidines, PPARs agonists, and GSK-3 inhibitors.

2(Previously presented). The method according to claim 1, wherein the metabolic disorder is diabetes type II. 
3(Previously presented). The method according to claim 1, wherein, in the compound,  $R^1$  is H or  $C_1$ - $C_3$  alkyl. 
4(Previously presented). The method according to claim 1, wherein the compound has any of formulae (Ia), (Ia')

wherein  $R^1$  is selected from the group consisting of hydrogen, sulfonyl, amino,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl,  $C_1$ - $C_6$ -alkoxy, aryl, halogen, cyano, and hydroxy; and

L is an amino group of the formula -NR<sup>3</sup>R<sup>4</sup>, wherein R<sup>3</sup> and R<sup>4</sup> are each independently from each other H, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, aryl, heteroaryl, saturated or unsaturated 3-8-membered cycloalkyl, 3-8-membered heterocycloalkyl, (wherein said cycloalkyl, heterocycloalkyl, aryl or heteroaryl groups may be fused with 1-2 further cycloalkyl, heterocycloalkyl, aryl or heteroaryl group), C<sub>1</sub>-C<sub>6</sub>-alkyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkenyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkenyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkynyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkenyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkenyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl heterocycloalkyl; or

 $\mbox{\ensuremath{R^3}}$  and  $\mbox{\ensuremath{R^4}}$  may form a ring together with the nitrogen to which they are bound.

5 (Previously presented). The method according to claim 4, wherein, in the compound,  $R^3$  is hydrogen or a methyl or ethyl or propyl group and  $R^4$  is selected from the group consisting of a  $(C_1-C_6)$ -alkyl,  $C_1-C_6$ - alkyl-aryl,  $C_1-C_6$ -alkyl-heteroaryl, cycloalkyl, heterocycloalkyl, aryl or heteroaryl, and 4-8 membered saturated or unsaturated cycloalkyl.

6 (Previously presented). The method according to claim 4, wherein, in the compound,  $\ensuremath{R^3}$  and  $\ensuremath{R^4}$  form an

optionally substituted piperazine or a piperidine or a morpholine or a pyrrolidine ring together with the nitrogen to which they are bound, whereby said optional substituent is selected from the group consisting of a C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, aryl, heteroaryl, saturated or unsaturated 3-8-membered cycloalkyl, 3-8-membered heterocycloalkyl, (wherein said cycloalkyl, heterocycloalkyl, aryl or heteroaryl groups may be fused with 1-2 further cycloalkyl, heterocycloalkyl, aryl or heteroaryl group), C<sub>1</sub>-C<sub>6</sub>-alkyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkenyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkenyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkenyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkenyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl cycloalkyl, and C<sub>1</sub>-C<sub>6</sub>-alkynyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl cycloalkyl, and C<sub>1</sub>-C<sub>6</sub>-alkynyl heterocycloalkyl.

7 (Previously presented). The method according to claim 5, wherein, in the compound, L is selected from the group consisting of:

$$-O \qquad O - R^{5}$$

$$(a) \qquad (b) \qquad N - R^{5}$$

$$-N \qquad N - R^{5}$$

$$H \qquad R^{5}$$

$$(c) \qquad (c)$$

$$-N \qquad N - R^{5}$$

$$H \qquad (e) \qquad (f)$$

wherein n is 1 to 10, and

 $R^5$  and  $R^{5^\prime}$  are independently selected from each other from the group consisting of H,  $C_1-C_{10}$  alkyl, aryl or hetero-aryl,  $C_1-C_6$  alkyl-aryl, and  $C_1-C_6$ -alkyl-heteroaryl.

8 (Previously presented). The method according to claim 1, wherein the compound is selected from the group consisting of:

1,3-benzothiazol-2-yl(2,6-dimethoxy-4pyrimidinyl)acetonitrile;

1,3-benzothiazol-2-yl(2-{[2-(1H-imidazol-5yl)ethyl]amino}-4-pyrimidinyl)acetonitrile;

1,3-benzothiazol-2-yl[2-(1-piperazinyl)-4pyrimidinyl]acetonitrile;

1,3-benzothiazol-2-yl[2-(4-benzyl-1-piperidinyl)-4pyrimidinyl]acetonitrile;

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1,3-benzothiazol-2-yl[2-(4-methyl-1-piperazinyl)-4-
pyrimidinyl]acetonitrile;
     1,3-benzothiazol-2-yl[2-(4-morpholinyl)-4-
pyrimidinyl]acetonitrile;
     1,3-benzothiazol-2-yl[2-(methylamino)-4-
pyrimidinyl]acetonitrile;
     1,3-benzothiazol-2-yl(2-\{4-[2-(4-morpholinyl)ethyl]-1-
piperazinyl}-4-pyrimidinyl)-acetonitrile;
     1,3-benzothiazol-2-yl{2-[4-(benzyloxy)-1-piperidinyl]-4-
pyrimidinyl}acetonitrile;
     1,3-benzothiazol-2-yl[2-(4-hydroxy-1-piperidinyl)-4-
pyrimidinyl]acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(dimethylamino)ethyl]amino}-
4-pyrimidinyl) acetonitrile;
     1,3-benzothiazol-2-yl[2-(dimethylamino)-4-
pyrimidinyl]acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-methoxyethyl)amino]-4-
pyrimidinyl}acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-hydroxyethyl)amino]-4-
pyrimidinyl}acetonitrile;
     1,3-benzothiazol-2-yl[2-(propylamino)-4-
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pyrimidinyl]acetonitrile;

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1,3-benzothiazol-2-yl(2-{[3-(1H-imidazol-1-
yl)propyl]amino}-4-pyrimidinyl)acetonitrile;
     1,3-benzothiazol-2-yl[2-(1-pyrrolidinyl)-4-
pyrimidinyl]acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-phenylethyl)amino]-4-
pyrimidinyl}acetonitrile;
     1,3-benzothiazol-2-yl(2-\{[2-(2-pyridinyl)ethyl]amino}-4-
pyrimidinyl) acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-pyridinylmethyl)amino]-4-
pyrimidinyl}acetonitrile;
     1,3-benzothiazol-2-yl\{2-[4-(1H-1,2,3-benzotriazol-1-yl)-
1-piperidinyl]-4-pyrimidinyl}acetonitrile;
     1,3-benzothiazol-2-yl\{2-[4-(2-pyrazinyl)-1-piperazinyl]-
4-pyrimidinyl}acetonitrile;
     1,3-benzothiazol-2-yl{2-[4-(2-pyrimidinyl)-1-
piperazinyl]-4-pyrimidinyl}acetonitrile;
     1,3-\text{benzothiazol}-2-yl(2-\{[2-(3-\text{pyridinyl})\text{ethyl}]\text{amino}\}-4-
pyrimidinyl) acetonitrile;
     1,3-benzothiazol-2-yl(5-bromo-2-{[2-
(dimethylamino)ethyl]amino}-4-pyrimidinyl)-acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-morpholin-4-
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ylethyl)amino]pyrimidin-4-yl}acetonitrile;

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1,3-benzothiazol-2-yl[2-(4-{3-
[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)pyrimidin-4-
yl]acetonitrile;
     1,3-benzothiazol-2-yl (2-{[3-(2-oxopyrrolidin-1-
yl)propyl]amino}pyrimidin-4-yl)-acetonitrile;
     1,3-benzothiazol-2-yl(2-{methyl[3-
(methylamino)propyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[3-(4-methylpiperazin-1-
yl)propyl]amino}pyrimidin-4-yl)-acetonitrile;
     1,3-benzothiazol-2-yl{2-[(3-morpholin-4-
ylpropyl) amino]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(1-methyl-1H-imidazol-4-
yl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(1H-indol-3-
yl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(4-
hydroxyphenyl)ethyl|amino}pyrimidin-4-yl)acetonitrile;
     tert-butyl ({4-[1,3-benzothiazol-2-
yl(cyano)methyl]pyrimidin-2-yl}amino)acetate
     {2-[(3-aminopropyl)amino]pyrimidin-4-yl}(1,3-
benzothiazol-2-yl)acetonitrile;
     {2-[(2-aminoethyl)amino]pyrimidin-4-yl}(1,3-benzothiazol-
2-yl)acetonitrile;
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1,3-benzothiazol-2-yl(2-{[3-
(dimethylamino)propyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-piperidin-1-
ylethyl)amino]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(1-methyl-1H-imidazol-5-
yl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl[2-(benzylamino)pyrimidin-4-
yl]acetonitrile;
     isopropyl 3-({4-[1,3-benzothiazol-2-
yl(cyano)methyl]pyrimidin-2-yl}amino)propanoate;
     1,3-benzothiazol-2-yl{2-[(3-
hydroxypropyl)amino]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl{2-[(pyridin-3-
ylmethyl)amino]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl{2-[(pyridin-4-
ylmethyl)amino]pyrimidin-4-yl}acetonitrile;
     tert-butyl 4-[2-({4-[1,3-benzothiazol-2-
yl(cyano)methyl]pyrimidin-2-yl}amino)-ethyl]phenylcarbamate;
     (2-\{[2-(4-aminophenyl)ethyl]amino\}pyrimidin-4-yl)(1,3-
benzothiazol-2-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(3,4-
dimethoxyphenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
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1,3-benzothiazol-2-yl(2-{[2-(3-
methoxyphenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(2-
fluorophenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-y1[2-({2-[3-
(trifluoromethyl)phenyl]ethyl}amino)pyrimidin-4-
yl]acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-hydroxy-2-
phenylethyl) amino] pyrimidin-4-yl} acetonitrile;
     1,3-benzothiazol-2-yl\{2-[(2-\{[3-(trifluoromethyl)pyridin-
2-yl]amino}ethyl)amino]-pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(3-
chlorophenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(3,4-
dichlorophenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(4-
methoxyphenyl)ethyl|amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(4-
methylphenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(3-
fluorophenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(4-
phenoxyphenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
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1,3-benzothiazol-2-yl(2-{[2-(2-
phenoxyphenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(4-
bromophenyl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(4-
fluorophenyl)ethyl amino pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-[1,1'-biphenyl]-4-
ylethyl)amino|pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl{2-[(2-{4-
[hydroxy(oxido)amino]phenyl}ethyl)amino]pyrimidin-4-
vl}acetonitrile;
     1,3-benzothiazol-2-yl(2-{[2-(1H-1,2,4-triazol-1-
yl)ethyl]amino}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl(2-{[3-(1H-pyrazol-1-
yl)propyl]amino}pyrimidin-4-yl)acetonitrile;
     4-[2-(\{4-[1,3-benzothiazol-2-yl(cyano)methyl]pyrimidin-2-
yl}amino)ethyl]benzene-sulfonamide;
     {2-[(2-pyridin-3-ylethyl)amino]pyrimidin-4-yl}[5-
(trifluoromethyl)-1,3-benzothiazol-2-yl]acetonitrile;
     1,3-benzothiazol-2-yl{2-[(1H-tetraazol-5-
ylmethyl) amino]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl[2-(benzyloxy)pyrimidin-4-
yl]acetonitrile;
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1,3-benzothiazol-2-yl{2-[(4-pyridin-3-
ylbenzyl)oxy]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl[2-(pyridin-4-ylmethoxy)pyrimidin-4-
yl]acetonitrile;
     1,3-benzothiazol-2-yl[2-(pyridin-2-ylmethoxy)pyrimidin-4-
yl]acetonitrile;
     1,3-benzothiazol-2-yl[2-(3-pyridin-2-ylpropoxy)pyrimidin-
4-yl]acetonitrile;
     1,3-benzothiazol-2-yl{2-[(4-methoxybenzyl)oxy]pyrimidin-
4-vl}acetonitrile;
     1,3-benzothiazol-2-yl[2-(pyridin-3-ylmethoxy)pyrimidin-4-
yl]acetonitrile;
     1,3-benzothiazol-2-y1{2-[2-(4-
methoxyphenyl)ethoxy]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl[2-([1,1'-biphenyl]-3-
ylmethoxy)pyrimidin-4-yl]acetonitrile;
     1,3-benzothiazol-2-yl{2-[(3,4,5-
trimethoxybenzyl)oxy]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl{2-[(3,4-
dichlorobenzyl)oxy]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl[2-({3-
[(dimethylamino)methyl]benzyl}oxy)pyrimidin-4-yl]acetonitrile;
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1,3-benzothiazol-2-yl{2-[(1-oxidopyridin-3-
yl)methoxy]pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl(2-{[4-(morpholin-4-
ylmethyl)benzyl]oxy}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl{2-[(4-pyridin-2-
ylbenzyl)oxy|pyrimidin-4-yl}acetonitrile;
     1,3-benzothiazol-2-yl(2-{[4-(piperidin-1-
ylmethyl)benzyl]oxy}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl[2-(4-methoxyphenoxy)pyrimidin-4-
yl]acetonitrile;
     1,3-benzothiazol-2-yl[2-(4-butoxyphenoxy)pyrimidin-4-
yl]acetonitrile;
     {2-[4-(4-acetylpiperazin-1-yl)phenoxy]pyrimidin-4-
yl}(1,3-benzothiazol-2-yl)acetonitrile;
     [2-(4-methoxyphenoxy)pyrimidin-4-yl][5-(trifluoromethyl)-
1,3-benzothiazol-2-yl]acetonitrile;
     N-[2-(\{4-[1,3-benzothiazol-2-yl(cyano)methyl]pyrimidin-2-
yl}amino)ethyl]-4-chlorobenzamide;
     1,3-benzothiazol-2-yl(2-methoxy-4-
pyrimidinyl) acetonitrile;
     1,3-benzothiazol-2-yl[2-({4-[(4-methylpiperazin-1-
yl) methyl]benzyl}oxy)pyrimidin-4-yl]acetonitrile;
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1,3-benzothiazol-2-yl[2-({4-[(4-benzyl-piperazin-1-
yl)methyl]-benzyl}oxy)pyrimidin-4-yl]acetonitrile;
     1,3-benzothiazol-2-yl(2-{[4-(piperazin-1-
ylmethyl)benzyl]oxy}pyrimidin-4-yl)acetonitrile;
     1,3-benzothiazol-2-yl[2-(\{4-[(4-formylpiperazin-1-
yl) methyl | benzyl | oxy) pyrimidin-4-yl | acetonitrile;
     [2-({4-[(4-acetylpiperazin-1-
yl)methyl|benzyl}oxy)pyrimidin-4-yl|(1,3-benzothiazol-2-
yl) acetonitrile;
     (3H-Benzothiazol-2-ylidene) - \{2-[4-(4-[1,2,4]oxadiazol-3-
ylmethyl-piperazin-1-ylmethyl)-benzyloxy]-pyrimidin-4-yl}-
acetonitrile;
     4-(4-{4-[(3H-Benzothiazol-2-ylidene)-cyano-methyl]-
pyrimidin-2-yloxymethyl}-benzyl)-piperazine-1-carboxylic acid
methyl ester;
     2-[4-(4-\{4-[(3H-Benzothiazol-2-ylidene)-cyano-methyl]-
pyrimidin-2-yloxymethyl}-benzyl)-piperazin-1-yl]-acetamide;
     (2-{4-[4-(2-Amino-acetyl)-piperazin-1-ylmethyl]-
benzyloxy}-pyrimidin-4-yl)-(3H-benzothiazol-2-ylidene)-
acetonitrile;
     [4-(4-{4-[(3H-Benzothiazol-2-ylidene)-cyano-methyl]-
pyrimidin-2-yloxymethyl}-benzyl)-piperazin-1-yl]-acetic acid
methyl ester;
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(3H-Benzothiazol-2-ylidene)-(2-{4-[4-(2-methoxy-ethyl)-piperazin-1-ylmethyl]-benzyloxy}-pyrimidin-4-yl)-acetonitrile;

4-(4-{4-[(3H-Benzothiazol-2-ylidene)-cyano-methyl]pyrimidin-2-yloxymethyl}-benzyl)-piperazine-1-carboxylic acid
dimethylamide;

 $(3H-Benzothiazol-2-ylidene)-\{2-[4-(4-ethyl-piperazin-1-ylmethyl)-benzyloxy]-pyrimidin-4-yl\}-acetonitrile; and$ 

(3H-Benzothiazol-2-ylidene)-(2-{4-[4-(2-hydroxy-ethyl)-piperazin-1-ylmethyl]-benzyloxy}-pyrimidin-4-yl)-acetonitrile.

Claims 9 and 10 (Cancelled).

11 (Previously presented). The method according to claim 1, wherein n is 1 to 6.

12 (Currently amended). A pharmaceutical composition comprising an anti-diabetes agent and a compound according to formula I:

$$R^{1}$$
 $S$ 
 $G-L$ 
 $(I)$ 

as well as a tautomer, geometrical isomer, optically active form as enantiomer, diastereomer, racemate, or a pharmaceutically acceptable salt thereof, wherein

G is a pyrimidinyl group;

L is an  $C_1$ - $C_6$ -alkoxy, an amino group, or a 3-8 membered heterocycloalkyl, containing at least one heteroatom selected from the group consisting of N, O, and S; and

 $R^1$  is selected from the group consisting of hydrogen, sulfonyl, amino,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl or  $C_1$ - $C_6$ -alkoxy, aryl, halogen, cyano and hydroxy.

13(Previously presented). A method for treating diabetes II, comprising administering an effective amount of the pharmaceutical composition according to claim 12 to a human or other mammal in need thereof.

Claims 14-20 (Cancelled).